

Claims

We claim:

1. A twist mop comprising:

a) a pole;

fibers connected to the end of the pole;

a movable collar connected to both the fibers and the pole adapted to traverse the pole in an axial and a radial direction, where radial movement pulls the fibers taut;

b) an upper spline connected to the pole;

a pawl connected to the collar, to interact with the upper spline and to allow the collar to move in a radial direction clockwise or counterclockwise;

c) the collar having a radial step to engage the pawl;

the pawl being shaped to flex toward the radial step both when the collar axially traverses the pole and when the collar rotates in a first direction, around the upper spline; and

the pawl being shaped to bias towards the upper spline while the collar rotates in a second direction, opposite to the first direction, around the upper spline.

2. The mop of claim 1, where the collar comprises a middle slot for inserting pawl.

3. The mop of claim 2, where the pawl comprises projections and a base, the projections rest inside the collar and the base rests outside the collar, and where the projections connect to the base so that a majority of the base material being distal from the projections.

4. The mop of claim 3, where the collar comprises lower slots and the mop fibers are woven into the lower slots.
5. The mop of claim 4, where the radial step guides the collar around the pole when moving the collar about the pole in a radial and axial direction.
6. The mop of claim 5, where the axial length of the upper spline allows the spline to engage the pawl when the mop fibers are wrung.
7. The mop of claim 6, having a lower spline, where the interaction of the lower spline and the pawl allows the collar to move in a radial direction clockwise or counterclockwise, to substantially prevent turning of the collar when mopping.
8. The mop of claim 7, having an axial area between the upper and lower spline, the area having no spline so that the collar may move in any radial direction to un-wring the mop fibers.
9. The mop of claim 8, where upper and lower splines are each on stationary collars, where the upper stationary collar has an upper area, and the lower stationary collar has a lower area, where the upper area and lower area are without a spline to limit the axial motion of movable collar.
10. The mop of claim 9, having a top handle, a middle handle, and a hook.

11. The mop of claim 10, where top and bottom handles are contoured to comfortably engage a hand of a user.

12. A twist mop comprising:

a) a pole;

fibers connected to the end of the pole;

means for pulling taut and controlling fibers;

b) the controlling means comprising a movable collar, the collar having a radial step and a pawl;

the pawl being shaped to flex toward the radial step when the collar axially traverses the pole and when the collar twists in a first direction, around the pole; and

the pawl shaped to bias towards the upper spline when the collar twists in a second direction, opposite to the first direction, around the pole.

13. A twist mop comprising:

a) a pole;

fibers connected to the end of the pole;

a movable collar connected to both the fibers and the pole adapted to traverse the pole an axial and a radial direction, where radial movement pulls the fibers taut;

b) an upper spline connected to the pole;

a pawl connected to the collar, where the interaction of the upper spline and the pawl allows the collar to move in a radial direction clockwise or counterclockwise;

where the axial length of the upper spline allows the spline to engage the pawl when the mop fibers are wrung;

c) a radial step connected to the collar, the radial step guides the collar around the pole when moving the collar about the pole in a radial and axial direction;

the pawl being shaped to flex toward the radial step when the collar axially traverses the pole and when the collar rotates in a first direction around the pole;

the pawl being shaped to bias towards the upper spline when the collar rotates in a second direction, opposite to the first direction, around the pole;

d) the collar comprises a middle slot for inserting pawl;

e) the pawl comprising projections and a base;

the projections being inside the collar and the base being outside the collar, and where the projections connect to the base so that a majority of the base material being distal from the projections; and

f) the collar comprising lower slots and the mop fibers are woven into the lower slots.

14. A twist mop comprising:

a) a pole;

fibers connected to the end of the pole;

means for pulling taut and controlling fibers;

b) the controlling means comprising a movable collar, the collar having a radial step and a pawl;

the pawl being flexible and removable from said collar.